Monday, July 09, 2012 3:50:01 PM Item ID: D350-636-013 Accept \*N900040100\* **Revision ID:** Skidtube LH Item Name: 7/10/2012 Start Qty: 1.00 **Start Date: Cust Item ID:** Required Date: 7/24/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Process Plan: 別しづ Approvals: Date: 12/07/ Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Work Center ID Description Run Hours Qty Qty Code Number Stamp Draw Nbr **Revision Nbr** D2750 F D3492 IIN-D350-636 100 0.00 MCJ 12/08/20

Document Control

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Photocopy blue file and type labels per PPP D350-636-013 CHG 006

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Monday, July 09, 2012 3:50:01 PM Item ID: D350-636-013 Revision ID: Skidtube LH Item Name: **Start Date:** 7/10/2012 Start Qty: 1.00 Required Date: 7/24/2012 Reference:

Accept

\*N900040100\*

Setup Start

Stop

**Req'd Oty:** 1.00

**Customer:** 

**Cust Item ID:** 

Approvals:

**Process Plan:** 

QC:

Date: Date: Tooling:

SPC (Y/N):

Date: Date:

Run Start

Stop

Sequence ID/ Work Center ID

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Skidtubes

Skidtubes

Operation Description Set Up/ **Run Hours** 

Tool ID

Tool # Plan

Code

Accept Qty

Reject **Qty** 

Reject Number

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Skidtubes

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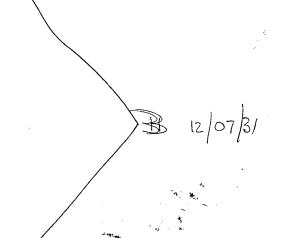
1- Pick D2600-3 Bent

2- Deburr FWD and AFT ends, remove bending marks. Scribe batch# inside AFT end per dwg D2750

- 3- Drill pilot holes for blade fitting bolt holes using DT8983. Open to 0.500", deburr.
- 4- Locate DT8330 off of blade fitting bolt holes and drill pilot holes for blade fitting
- 5- Drill only two fwd step holes using DT9616. Ensure proper positioning.
- 6- Drill pilot holes as per Dwg D2750 sheet 4 (D2750-3 details). Drill using drill Jig DT8150 & DT8864A for first side only DT8864B for second side (detail B)
- 7- Clecko DT8864B on second side of tube and drill pilot holes for detail B. \*\*\*SECOND SIDE\*\*\*
- 8- Open up holes for SECTION AW-AW to 0.375" (2 holes per side) and blade fitting location holes to 0.500" (total of 4 holes per side) as per dwg D2750. Open holes for ground handling and detail T to 0.500" (8 holes per side)
- 9-Drill pilot holes for wearplates as per Dwg D2750 using DT8108 open to 0.297".

10-Open up holes of Detail A to 0.297" (total of 2 holes per side)

CF 12-7-26



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Monday, July 09, 2012 3:50:01 PM Item ID: D350-636-013 Accept Setup Start \*N900040100\* **Revision ID:** Skidtube LH Item Name: **Start Date:** 7/10/2012 Start Qty: 1.00 **Cust Item ID:** Required Date: 7/24/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Approvals: Process Plan: Date: Tooling: Date: QC: SPC (Y/N): Date: Date: Sequence ID/ Operation Tool # Plan Tool ID Reject Set Up/ Accept Reject Insp. Work Center ID Description **Run Hours** Qty Qty Code Number Stamp 11-Weld D2744 Cap as per Dwg D2750 and QSI 004.Fill grooves in bend left from bending as per QSI 004 A/R Aluminum Rod batch: M122130 12-Grind welds flush as per Dwg D2750 120 QC10- Inspect visual per QSI004- ground welds \*120\* QC Memo Quality Control 130 QC5- Inspect part completeness to step on W/O \*130\* QC Memo Quality Control

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Quality Control

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Monday, July 09, 2012 3:50:01 PM D350-636-013 Item ID: Accept \*N900040100\* Setup Start **Revision ID:** Item Name: Skidtube LH **Start Date:** Start Qty: 1.00 7/10/2012 **Cust Item ID:** Required Date: 7/24/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Process Plan: Approvals: Date: Tooling: Date: QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool # Plan Tool ID Reject Accept Reject Insp. Work Center ID Description **Run Hours** Code Qty Qty Number Stamp 140 Chemical Conversion Coat per QSI005 4.1 0.00 \*140\* HandFinish 0.00 Memo Hand Finishing 150 QC7-Inspect Chemical Conversion Coat 0.00 \*150\* QC 0.00

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Sequence ID/ Work Center I 160 *160* Skidtubes Skidtubes	D	3-Ope side E 4-Cha instru 5-Deb remov 6-Bor A/R 7- We (weld A/R 8-Grii	oen up holes section up holes of Detoetail AV-AV) as aumfer holes of sections on sheet 10 purr and blow out we alodine as required web D2739, in Sikaflex-291 celd spacers D3490 ing instructions of Aluminum Rodind welds flush as	Se Ru 0.00  0.00  0.00  n AW-AW 0.500" (4 per stail T and ground handling per dwg D2750.  tion AW-AW, AV-AV, T  ))  all chips from inside of tuited.  place as per QSI 015 batch: 120 20 exp. date: 131  0-1, D3490-5 and D2743 at an sheet 10) batch: M122 37	t Up/ In Hours  of the properties of the propert	Tool ID  D2750 of 8 holes per ling. (welding for welding,	Tool#	Plan Code	Accept Qty    7   7   7   7   7   7   7   7   7	Qty	**************************************	Reject Number	Insp. Stamp	

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Monday, July 09, 2012 3:50:01 PM Item ID: D350-636-013 Accept \*N900040100\* Setup Start Revision ID: Stop Item Name: Skidtube LH **Start Date:** 7/10/2012 Start Qty: 1.00 **Cust Item ID:** Required Date: 7/24/2012 **Req'd Qty:** 1.00 **Customer:** Reference: Run Start Process Plan: Approvals: Date: Tooling: Date: Stop SPC (Y/N): QC: Date: Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code Qty Qty Number Stamp 170 QC10- Inspect visual per QSI004- ground welds \*170\* OC Memo Quality Control 180 QC5- Inspect part completeness to step on W/O \*120\* QC Memo Quality Control 190 Pressure Wash per QSI005 4.3 0.00 1 76 12-88 \*190\* HandFinish 0.00 Memo Hand Finishing Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch.

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Page 7

Monday, July 09, 2012 3:50:01 PM Item ID: D350-636-013 Accept \*N900040100\* Setup Start Revision ID: Stop Item Name: Skidtube LH Start Date: 7/10/2012 Start Otv: 1.00 \*1\* Cust Item ID: Required Date: 7/24/2012 Req'd Qty: 1.00 \*1\* **Customer:** Reference: Start Run Approvals: **Process Plan:** Date: Tooling: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description Qty **Run Hours** Code Qty Number Stamp 200 White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum 0.00 \*200\* Powdercoat 0.00 Powder Coating m 1214812 210 QC3- Inspect Part Finish 0.00 \*210\* 1hH d H 12/08/15 OC 0.00 Memo **Quality Control** Inspect for foreign object per OSI 024 220 0.00 HandFinishing \*220\* Intl of M worls HandFinish 0.00 Hand Finishing →-Install inserts as per dwg D2750

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Sequence ID/ Work Center II 230 *230* HandFinish Hand Finishing	D	2-Spray in  3-Install b per dwg D SIKA FLE BATCH: EXP DAT  4-assemble A/R 55-o'	2750  X 241    \( \lambda \lam	wearshoes and ground handli	be	Tool#	Plan Code	Accept Qty	Qty	]	Reject Number	Insp. Stamp	1
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Monday, July 09, 2012 3:50:01 PM Item ID: D350-636-013 Accept \*N900040100\* Setup Start **Revision ID:** Skidtube LH Item Name: Start Qty: 1.00 **Start Date:** 7/10/2012 Cust Item ID: Required Date: 7/24/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Approvals: **Process Plan:** Date: Tooling: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code Qty Qty Number Stamp 250 Pick Kit 0.00 \*250\* Packaging 0.00 Memo Packaging 260 QC4- 100% Inspect kits for completeness \*260\* QC Memo Quality Control 270 Packaging \*270\* Packaging 0.00 Memo Packaging Package as per PPP D350-636-013

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Monday, July 09, 2012 3:50:01 PM Item 1D: D350-636-013 Accept Setup Start \*N900040100\* **Revision ID:** Stop Item Name: Skidtube LH Start Qty: 1.00 **Start Date:** 7/10/2012 **Cust Item ID:** Required Date: 7/24/2012 Req'd Qty: 1.00 **Customer:** Reference: Run **Process Plan: Tooling: Approvals:** Date: Date: Stop QC: SPC (Y/N): Date: Date: Sequence ID/ Operation Reject Set Up/ Tool ID Tool # Plan Accept Reject Insp. **Work Center ID** Description Code Qty Qty Number Stamp **Run Hours** 280 QC21- Final Inspection - Work Order Release 0.00 MUJ 12/08/22 MUJ 12/02/22 \*280\* 0.00 Memo Quality Control

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#### **Picklist Print**

Monday, July 09, 2012 3:50:00 PM

Work Order ID:

87013

Parent Item:

D350-636-013

Parent Item Name:

Skidtube LH

Start Date: 7/10/2012

Required Date: 7/24/2012

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:H02.09.25Rearranged procedure steps KJ

IPP rev I

06.03.30 Per rev. D dwg

EC

IPP Rev:J 07-07-28 Added SS Wearplates(Rev E) JLM Verified By:EC IPP Rev:K 08-09-23 revF as per dwg DD verified by:ec

IPP Rev:L 10.06.22 revise seq110

	DD verf:EC	IPP F	Rev:M 10.	.10.01 as per l	IIN revH DD	verf:EC	,						
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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Monday, July 09, 2012 3:50:00 PM

Work Order ID:

87013

Parent Item:

D350-636-013

Parent Item Name:

Skidtube LH

Start Date: 7/10/2012

Required Date: 7/24/2012

Start Qty: 1.00

Required Qty: 1.00

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		ST350	1604		
		116419	28		
		117343	13		
		117764	7		
		117872	2		
		119749	23		
		120423	28		
		121255	469		
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AN3C6A BOLT	Purchased	No	230 Eac	th 285.0000	4 914 12/08/15
		<b>Location</b>	Loc Qty	Loc Code	
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		ST351	284		
		111982	2		
		116419	23		
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Monday, July 09, 2012 3:50:00 PM

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AN8C35A BOLT		Purchased	No			230	Each	61.0000	1		1 - +21081+5
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DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector					
<del></del>	•	,												
Part No	•	PAR #:	Fault Cat	egory:	NCR: Yes No DQA: Date:									
		solution:												
NCR:			WORK ORE	DER NON-CONFORM	ANCE (N	CR)	-		· · · · · ·					
DATE	STEP	Description of NC			ction B	Ve	rification	Approval	Approval					
DAIL	JIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sig Da	n& s	Section C	Chief Eng	QC Inspector					
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Monday, July 09, 2012 3:50:00 PM

Work Order ID: Parent Item: Parent Item Name:	87013 D350-636-013 Skidtube LH							Pate: 7/10/201 Qty: 1.00	2 1	Required Date: 7/24/2012 Required Qty: 1.00
D2600-3-BENT Extrusion Bent		Manufactured	No		110	Each	33.0000	1	1	CF 12-1-26
				Location	Loc Qty		Loc Code			*
				LG	33					
				66875	7					
				73253	1					
				75021	1					
				75022	1					
				75023	1					
				81330	4					
				83305	1					
D2739			NI.	86330	17	Б.				
350 I Beam		Manufactured	No		160	Each	14.0000	<u>'</u> S	20	12-08-01
•				Location	Loc Qty		Loc Code			
	•			LG	14		2300 0040			
,	•			72155	14					
		<		81508	1	•				
				83448	2					
				83548	1		7 8ku 000			
				85486	5		B 85487		)	
				86615	4		13 Y			
D2741 Blade, 350 Skidtube		Manufactured	No		250	Each	34.0000	1	1	12 oslela
				Location	Loc Qty		Loc Code			
				ST	-10					
				ST466	44					
				71856	1					
				83135	33					

Dart Aerospace	Ltd
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W/O:			WC	RK ORDER CHANG	ES				•
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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***************************************									
Part No	:	PAR #:	Fault Cate	gory:	_ NCR: Ye	s No DQ	<b>A</b> :	_ Date: _	
	R	esolution:	Disposition	1: <u> </u>	_ QA: N/C	Closed:		Date: _	
NCR:		\	WORK ORDI	ER NON-CONFORMA	ANCE (NO	R)			
DATE	STEP	Description of NC		Corrective Action Section		Verifi	cation	Approval	Approval
R	Section A	Initial Chief Eng	Action Description Chief Eng	Sigr Da		ion C	Chief Eng	QC inspector	
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Monday, July 09, 2012 3:50:01 PM

Work Order ID: Parent Item: Parent Item Name:	87013 D350-636-013 Skidtube LH							Date: 7/10/2012	=	uired Date: 7/24/2012
D2743	Skidiude Lii							<b>Qty:</b> 1.00		uired Qty: 1.00
Crossbolt Spacer		Manufactured	No		220	Each	152.0000	8	8	BE 12/08/1
			Loca	<u>tion</u>	Loc Qty		Loc Code		(	385459 78
			LG		78				_	
				81965	23				•	
				83262	55					
			LG00	1	74					•
				67766	4				_	
				68251	3					
				73403	64				_	
				74445	1					
				79517	2					
<b>02744</b> Cap		Manufactured	No		160	Each	60.0000	1 contractions of the way 100 years	1	AE PP7/30
			Locat	tion_	Loc Qty		Loc Code			, ,
			LG00	2	60					
				62715	1				<del></del>	
				83412	21					
				85506	38			<u> </u>		
D2745 Bushing		Manufactured	No		230	Each	258.0000	8 JU	8	28/15
			Locat	tion_	Loc Qty		Loc Code			
			FP		206					
				79518	6					•
				85416	200					
			FP00	<u> </u>	52			<u> </u>		
				69529	1					
				76142	1				<del></del> .	
				83260	50					

	•								•			
W/O:			WORK ORDER CHANGES									
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
									,			
Part No: F		PAR #:	Fault Cate	jory:	NCR: Yes	No DQ	A:	Date:				
Resolution:			Disposition	J: '	QA: N/C C	losed:		Date:				
NCR:			WORK ORD	R NON-CONFORMA	NCE (NC	R)						
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	on B Sign Date			Approval Chief Eng	Approval QC Inspector			
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Monaay, July 09, 2	012 3:30:01 PM										1.61
Work Order ID: Parent Item:	87013 D350-636-013		-				,		Start Date	e: 7/10/2012	Required Date: 7/24/2012
Parent Item Name:	Skidtube LH								Start Qty	<b>1.00</b>	Required Qty: 1.00
D3488-041 Blade Fitting Assembly,	LH	Manufactured	No			230	Eac	ch 29.000	0	1	1 12 0 8 1 5
				Locatio	<u>on</u>	Loc Qty		Loc Code			
				FP001		12	:				
					85807	12					_
				FP002		13	,				_
					83407	10	)			Y l	_
					85733	7	•				_
D3490-1 Cross Bolt Spacer		Manufactured	No			160	Eac	ch 79.000	0	4	4 BE2/08/02
				Locatio	<u>)n</u>	Loc Qty		Loc Code			_ /
				LG			;				4
					81976						
					85419	66	,			4	_
				LG001		11					<del>-</del>
					62450	2					_
					74875	4					
					77042	3					
D3490-5			2.7		83269	2					-
Cross Bolt Spacer		Manufactured	No			160	Eac	ch 31.000	0	4	4 BE1268/02
				Location	<u>on</u>	Loc Qty		Loc Code			//
•				LG001		31					,
					83373	31					_
D3492-1 Plug		Manufactured	No			230	Eac	ch 205.00	00	8	8 12/08/15
1.				Locatio	<u>on</u>	Loc Qty		Loc Code			
				FP002		198			662	χl	
					69531	8		13 6 -	666		_
					74444	2					-
					76235	4					_
					83259	184				<del> </del>	
				FP-A		7				¼ -	_
					83098	7					_

	•									•		
W/O:			RK ORDER CHANG	R CHANGES								
DATE	STEP	PR	PROCEDURE CHANGE							Approval QC Inspector		
										· -		
Part No: PAR #:			Fault Category: NCR: Yes No DQA:							Date:		
Resolution:			Disposition	QA: N	QA: N/C Closed: Date:							
NCR:			WORK ORDE	R NON-CONFORM	ANCE (	NCR)						
DATE	STEP	Description of NC		ction B				n Approval	Approval			
DAIL	SILI	Section A	Initial Chief Eng	Action Description Chief Eng	cription Sign & Date			on C	Chief Eng	QC Inspector		
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Work Order ID: Parent Item: Parent Item Name:	87013 D350-636-013 Skidtube LH							Date: 7/10/2012 Qty: 1.00	Required Date: 7/24/2012 Required Qty: 1.00
<b>D3492-5</b> Plug		Manufactured	No		230	Each	135.0000	8 <u>JU</u>	82108115
				Location	Loc Qty		Loc Code		
				fpa	135				
				83100	34				<u> </u>
				83530	101			V 82	
D3492-1 ] / /		Manufactured	No	<del></del>	110	Each	97.0000	2	2
Washer /									<b>4</b>
/\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				Location	Loc Qty		Loc Code		The second secon
M				ST050	97		<u> Bot Cout</u>		
19-2				77573	9/				
•				82023	2				
				83097	94			***************************************	<del></del>
D3535-25 Wearshoe		Manufactured	No		230	Each	32.0000	' yl	- 1 2/08/15
				Location	Loc Qty		Loc Code	1 2 11111111111111111111111111111111111	an commence described to the same National and the
				FP001	32				
				62233	1				_
				81357	1				
				<u>8338</u> 7	17			уι	<del>_</del>
				83899	13				
<b>D3536-25</b> Gasket		Manufactured	No		230	Each	22.0000	' <u>'</u>	1 12 08 15
				Location	Loc Qty		Loc Code		
				FP	22				
				83391	6				<del></del>
				83900	16			X 1	<del>-</del>

W/O:		WORK ORDER CHANGES												
DATE	STEP	PROC	EDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
Part No		PAR #:	_ Fault Cate	gory:	NCR: Yes	_ Date: _								
Resolution:			_ Dispositio	n: <u>`</u>	QA: N/C	QA: N/C Closed: Date:								
NCR:		W	ORK ORD	ER NON-CONFORMA	NCE (NC	R)								
DATE	OTED	Description of NC			Section B Verif			Approval	Approval					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	Section C		Chief Eng	QC Inspector					
									t					

Monday, July 09, 2012 3:50:01 PM

Work Order ID:	87013												
Parent Item:	D350-636-013								Start I	Date: 7/10	0/2012	Required Date: 7/24/	2012
Parent Item Name:	Skidtube LH									Qty: 1.00		Required Qty: 1.00	
<b>D3537-1</b> Wearpad		Manufactured	No			230	E	ach	112.0000	3	ld	3 1108/15	····
				Locatio	<u>n</u>	Loc Qt	Y		Loc Code				
				FP002		1	12						
					81362		3						
					83254		1					_	
					83255		3			-		<del></del>	
					83256		20			-		_	
					85457		37					_	
					85458		48				x3		
<b>D3631-1</b> Washer		Manufactured	No			230	Е	ach	283.0000	8	M	8 12/08/15	
				Locatio	<u>n</u>	Loc Qt	y		Loc Code				A.30.331
				FG			68						
					81874	<u>~</u>	2					_	
					83588	2	66				. ()	_	
				ST072							X &	•••	
				31072	68062		15						
					68062		2					_	
3791-1					75548		13					<del></del>	
Vearplate		Manufactured	No			230	E	ach	26.0000	1	HL	112/08/15	
				<u>Locatio</u>	<u>n</u>	Loc Qt	Y		Loc Code				
				FP002			26						
					62239		2					_	
					83392		12						
					83902		12				X (		
<b>93793-1</b> Vearshoe		Manufactured	No			230	E	ach	26.0000	1	HI	1 12/08/15	
				Locatio	<u>n</u>	Loc Qt	Y		Loc Code				
				FP001			- 26						
				, , ,	82171		2						
					83393		11			_		_	
											V 1	Mari	
					83903		13			_	XL	_	

	Johann								•						
W/O:			WORK ORDER CHANGES												
DATE	STEP	PRO	OCEDURE CHAI	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector							
Dort No.	_	DAD #-			NOD V	N. 50		D-4							
Part No: PAR #:					NCR: Yes No DQA: Date: QA: N/C Closed: Date:										
	n'	1		· · · · · · · · · · · · · · · · · · ·				Date							
NCR:				ER NON-CONFORMA	NCE (NCR	)									
DATE	STEP	Description of NC			Ver			ification Approval							
	J	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		Chief Eng	QC Inspector						
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Monday, July 09, 2012 3:50:01 PM

Work Order ID:	87013									
Parent Item:	D350-636-013							Start I	Date: 7/10/2012	Required Date: 7/24/2012
Parent Item Name:	Skidtube LH								<b>Qty:</b> 1.00	Required Qty: 1.00
D3793-3 Wearshoe		Manufactured	No			230	Each	28.0000		1 12/08/15
				Locatio	<u>n</u>	Loc Qty		Loc Code		
				FP001		28	;		***	
					83394	16				_
D2=0.4					83901	12			X(	-
<b>D3794-1</b> Gasket		Manufactured	No			230	Each	24.0000	1 11	1 12/08/15
	•			Locatio	ū	Loc Qty		Loc Code		
				FP		4				_
					82167	4	ļ			_
				FP002		20				_
					83395	20				_
<b>D3794-3</b> Gasket		Manufactured	No			230	Each	45.0000	1 <u> </u>	1
				Locatio	<u>n</u>	Loc Qty		Loc Code		
				FP		19	)			
					8 <u>3396</u>	19	)		X	_
				FP002		26	,			_
					74530	2			-	ma.
					86243	24				_
<b>MS21043-6</b> NUT		Purchased	No			230	Each	586.0000	4 HJ	4 12/08/15
				<u>Locatio</u>	<u>n</u>	Loc Qty		Loc Code		
				FG		20	)			_
					103693	20	)			
				ST301		566	,			_
					117887	2				_
					118384	64				_
					120308	500	)			_

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W/O:			W	ORK ORDER CHANG	ES				•
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
<del></del>									
Dort No.		DAD #-	Fault Oak		NOD- V	N- DO	<u> </u>	D-4	<u> </u>
Part No		PAR #:							
	H	esolution:						Date:	
NCR:			WORK OR	DER NON-CONFORMA	ANCE (NCR	)			
DATE	STEP	Description of NC	Initial	Corrective Action Section  Action Description	on B Sign &		cation	Approval	Approval
		Section A	Chief Eng	Chief Eng	Date	Sect	ion C	Chief Eng	QC Inspector
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Location	Loc Qty	Loc Code	•
		<u>cor cour</u>	
304	39		
121185	22		
121349	17		
FP002	1		***************************************
	1		
115884	l		***************************************
ST303	4		
115884	0		
118077	1		
119309	2		
119638	1		
	1		
ST321	50		
122141	50		

	•									•
W/O:			WO	RK ORDER CHANG	ES				. (9	• •
DATE	STEP	PRO	OCEDURE CHAI	IGE	By	,	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		7								
Part No	:	PAR #:	Fault Categ	jory:	NCR: Y	es N	lo <b>DQ</b>	A:	Date: _	
Resolution:										
NCR:			WORK ORDE	R NON-CONFORM	ANCE (N	ICR)				
DATE	STEP	Description of NC			Section B V			cation	Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng		ate	Secti	on C	Chief Eng	QC Inspector
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Monday, July 09, 2012 3:50:01 PM

Work Order ID: 87013 Parent Item: D350-636-013 **Start Date:** 7/10/2012 Required Date: 7/24/2012 Parent Item Name: Skidtube LH Start Qty: 1.00 Required Qty: 1.00 NAS1149C0832R No Purchased 230 Each 250.0000 WASHER Location Loc Qty Loc Code ST297 250 114915 250 NAS1149D0863J No Purchased 250 Each 221,0000 WASHER Location Loc Qty Loc Code ST298 221 118078 34 119307 120308 86 121556 100 NAS1515H3L No Purchased 230 Each 311.0000 WASHER Location Loc Qty Loc Code FG 40 102472 40 ST277 271 118686 3 120360 11 121556 57 200 122151 NAS1611-005 Purchased No 230 Each 140.0000 O-RING Location Loc Qty Loc Code FP001 140 106099 18 114220 46 119438 36

40

121415

	- OP HOL	,							
W/O:			W	ORK ORDER CHANG	ES			<u> </u>	
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	egory:	_ NCR: Yes	No DQ	A:	Date:	
Resolution:		esolution:							
NCR:			WORK ORD	ER NON-CONFORM	ANCE (NC	R)			
DATE	STEP	Description of NC			ion B	Verifi	cation	Approvai	Approval
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat	e Sect	ion C	Chief Eng	QC Inspector
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#### **Picklist Print**

Monday, July 09, 2012 3:50:01 PM

Page 12

Work Order ID:

87013

Parent Item:

O-RING

D350-636-013

Parent Item Name:

Skidtube LH

NAS1611-010

Purchased

**Start Date:** 7/10/2012

Required Date: 7/24/2012

Start Qty: 1.00

Required Qty: 1.00

<b>Location</b>	Loc Qty	Loc Code	J
FP001	416		
110915	14		
117460	8		
118077	l		
118612	3		
119438	47		
121259	2		
121584	2		
121723	39		
122151	300		x 9,

416.0000

230

Each

W/O:			WORK ORDER CHANGES										
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
						)							
Part No	:	PAR #:	Fault Cate	gory:	NCR: Ye	s No DO	QA:	Date: _					
Resolution:		esolution:	Dispositio	1: <u>'</u>	QA: N/C	Closed: _		Date: _					
NCR:			WORK ORDI	ER NON-CONFORM	ANCE (NO	CR)							
DATE	STEP	Description of NC	Corrective Action Initial Action Description		ction B		ication	Approval Chief Eng	Approval QC Inspector				
		Section A	Chief Eng	Chief Eng	Da		ction C	Chief Eng	QC Inspector				
···													
									ţ				

	QTY -041	QTY -042	QTY -043	QTY -044	PART NUMBER	DESCRIPTION
	X				D2750-041	350 SKIDTUBE ASSEMBLY, LH
		X			D2750-042	350 SKIDTUBE ASSEMBLY, RH
			Х		D2750-043	350 SKIDTUBE ASSEMBLY, LH
				X	D2750-044	350 SKIDTUBE ASSEMBLY, RH
	1	1	1	1	D2739	WEB
	8	8	8	8	D2743	SPACER
	1	1	1	1	D2744	ICAP
	8	8	8	8	D2745	BUSHING
	1				D2750-1	SKIDTUBE WELDMENT, LH
		1			D2750-2	SKIDTUBE WELDMENT, RH
	T'		1		D2750-3	SKIDTUBE WELDMENT, LH
				1	D2750-4	SKIDTUBE WELDMENT, RH
	1		1		D3488-041	BLADE FITTING, LH
		1		1	D3488-042	BLADE FITTING, RH
	4	1	4	4	D3490-1	SPACER
	4	4			D3490-3	SPACER
			4	4	D3490-5	SPACER
	8	8	8	8	D3492-041	PLUG ASSEMBLY
	8	8			D3492-043	PLUG ASSEMBLY
			8	. 8	D3492-045	PLUG ASSEMBLY
	1	1	1	1	D3535-25	WEARSHOE
	1	1	1	1	D3536-25	GASKET
Æ	3	3	3	3	D3537-1	WEARPAD
	8	8	8	8	D3631-1	WASHER
Г	1	1	1	1	D3791-1	WEARPLATE
	1	1	1	1	D3793-1	WEARSHOE
\ <del></del> !	1	1	1	1	D3793-3	WEARSHOE
<u> </u>	1	1	1	1	D3794-1	GASKET
	1	1	1	1	D3794-3	GASKET
٠.						O. C. C.
<u> </u>	38	38	38	38	ALS4-1032-225	INSERT (OR ALS7-1032-225, AKS4-1032-225, AELS-1032-225)
_	34	34	34	34	AN3C5A	BOLT
	4	4	4	4	AN3C6A	BOLT
	4	4	4	4	AN6C44A	BOLT
	1	1	1	1	AN8C35A	BOLT
ا ت د	38	38	38	38	AN960C10L	WASHER
-7	1	1	1	1	AN960C816L	WASHER
	4	4	4	4	MS21043-6	NUT
	1	1	1	1	MS21083C8	NUT
	4	4	4	4	NAS1515H3L	WASHER

F	QTY (3) D3791- D3794- ADD D3 WEARS (8 PL), 1 D3488- ADD NO	1/-3 REPLACES 1/-3 REPLACES 1/91-1 (ZN C8-1 SHOE HOLES U WEARSHOE HA	QTY (5) (ZN C8-1); D D353-6 (37-35 (ZN C8-1); D D353-6 (37-35 (ZN B8-1); )) NDER FWDJAFT SADDLE REMOVED ARDWARE UPDATED (ZN B8-1); WARE UPDATED (ZN C1-8, 9, 10, 11); (ZN A6-11);	РН	08.07.16
E	REMOV NAS151	E TO STAINLE JBBER GASKE 'E QTY (38) NA 15H8L; REMOV 'E QTY (2) MS2	СВ	07.05.17	
D	ADD HO	DLES AND SIA	CERS FOR APICAL FLOATS; 0133/9157	PH	06.01.05
С	ADD D2	750-3/D2750-4	INCORPORATE D2738 AND D2740	CP	98.11.18
В	CHANG	E MS24694-S2	93 TO AN8-16A	CP	98.09.01
Α	NEW IS	SUE	DS	98.04.16	
REV.			DESCRIPTION	BY	DATE
DESIGN	٧	PA	DART AEROSPACE	USA,	INC.

DESIGN	PO,	DART AEROSPACE US	A INC
DRAWN	PH	PORT HADLOCK, WA	,
CHECKED	116	DRAWING NO.	REV. F
MFG. APPR.	ALC:	D2750	SHEET 1 OF 11
APPROVED	IM	TITLE	SCALE
DE APPR.	/ 1	│350 SKIDTUBE ASSEMB	LY NTS
08.0	7.16	COPYRIGHT © 1998 BY DART AEROSPAN  146 DOCUMENT IS FRINKE AND COMBIDENTIAL AND IS SUPPLIED ON THE E  NOT TO BE USED FOR ANY PURPOSE OR COMBID ON COMMUNICATED TO A	XPRESS CONDITION THAT IT IS

**GENERAL NOTES:** 

С

MATERIAL: MAKE D2750-1/-2/-3/-4 FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0).

FINISH: FINSH:

ACID ETCH, ALONDE ASSEMBLY PER DART QSI 005 4.1 PRIOR TO INSTALLING D2739 WEB.

POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3

BLACK ANTI-SKID PAINT AS INDICATED TO 1.0 ABOVE SKIDTUBE CENTER-LINE PER DART 005 4.4 (OPTIONAL).

TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

UNITS: INCHES UNLESS OTHERWISE NOTED

BREAK SHARP EDGES: N/A

IDENTIFICATION: N/A

WEIGHT: D2750-041/-042/-043/-044 = 26.5 LBS

WFI D PER DART QSI 004

WEIGHT: D2750-041/-042/-043/-044 = 26.5 LBS
WELD PER DART QSI 004
INSTALL ALSA-1032-225 INSERTS AFTER FINISH AS INDICATED. DRILL 'F' SIZE HOLES (Ø0.297) FOR WEARSHOE INSERTS
FINAL CONFIGURATION SHOULD HAVE THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:
MINIMUM YIELD TENSILE STRENGTH = 35 KSI
MINIMUM ULTIMATE TENSILE STRENGTH = 38 KSI
SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS.
COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF
POWDER COATING WITH MEK DEGREASER.
SPACER AND PLUG INSTALLED SAME AS SECTION AJ-AJ EXCEPT HORIZONTAL

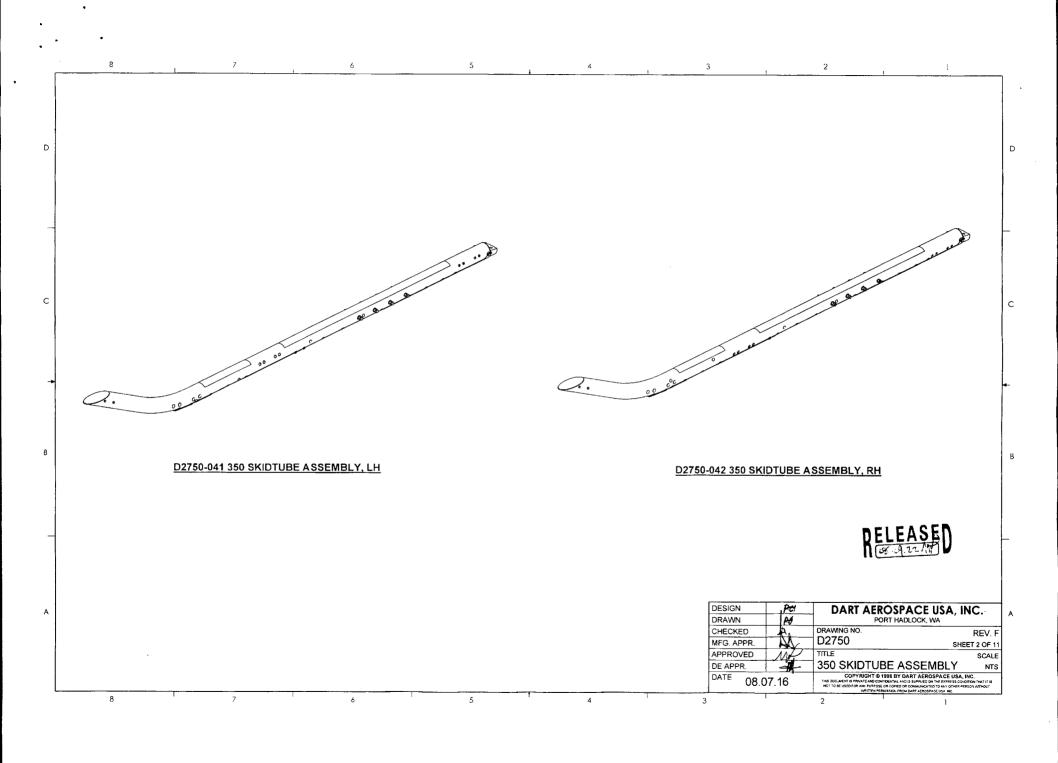
SPACER AND PLUG INSTALLED SAME AS SECTION AP-AP EXCEPT HORIZONTAL

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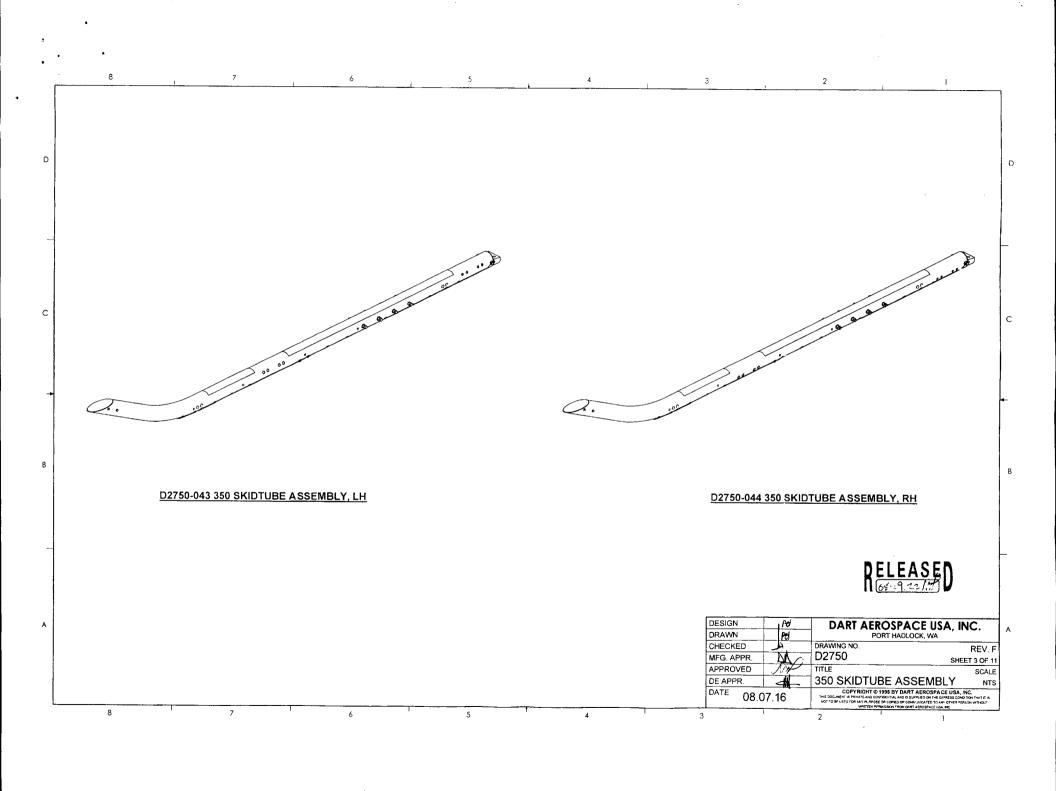
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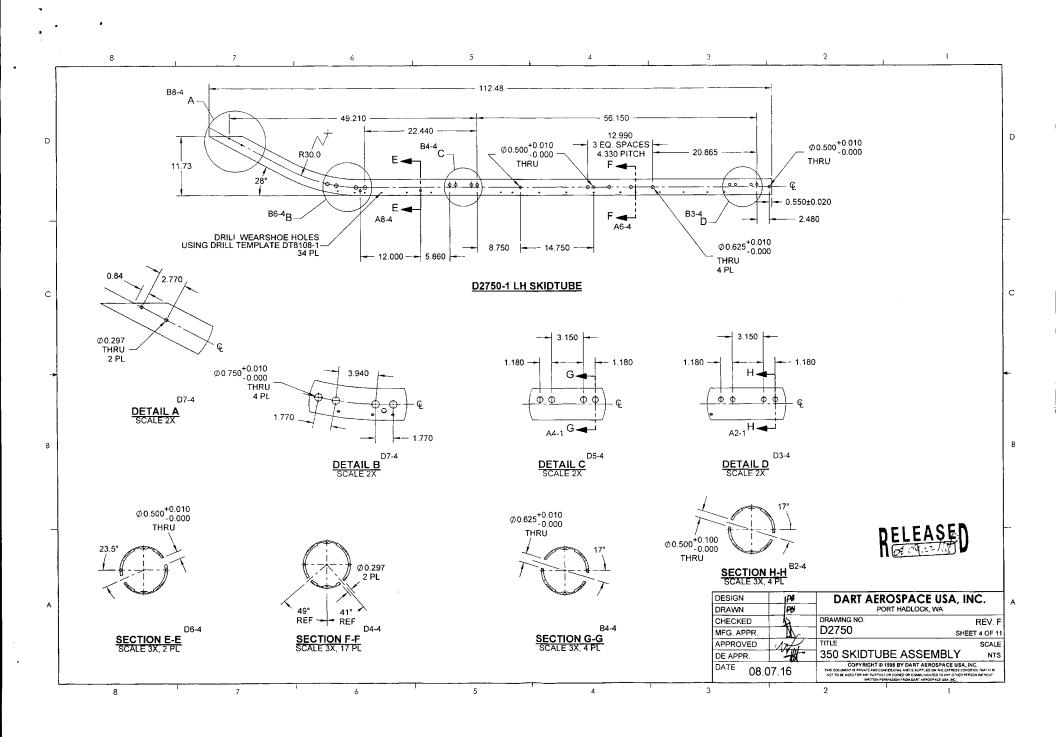
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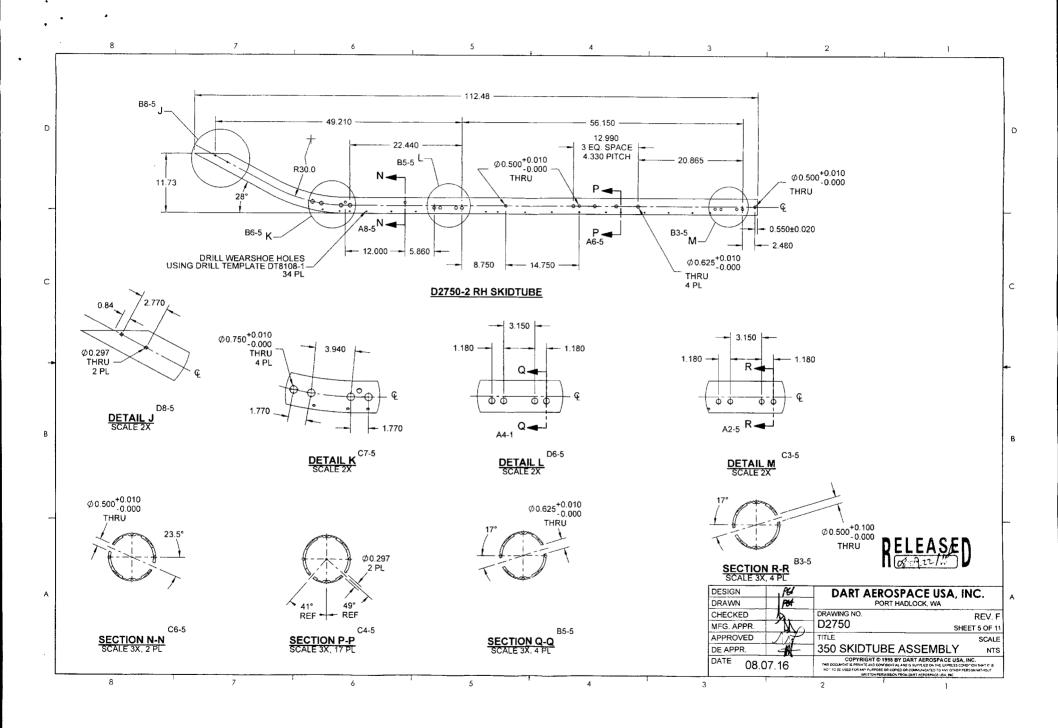
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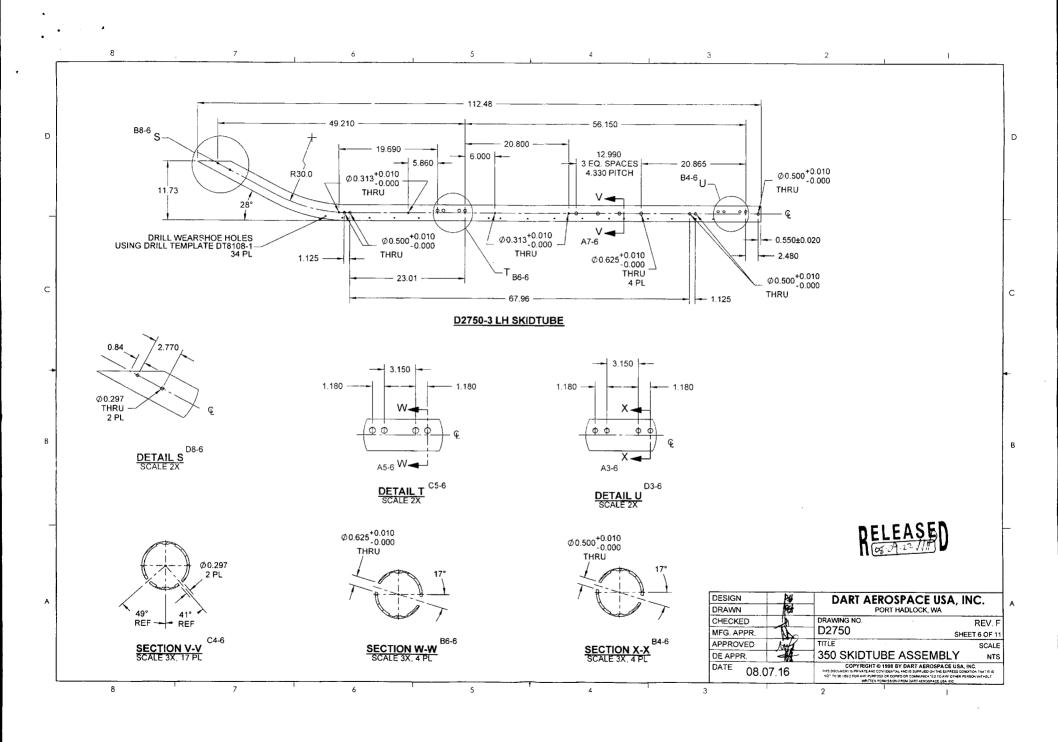
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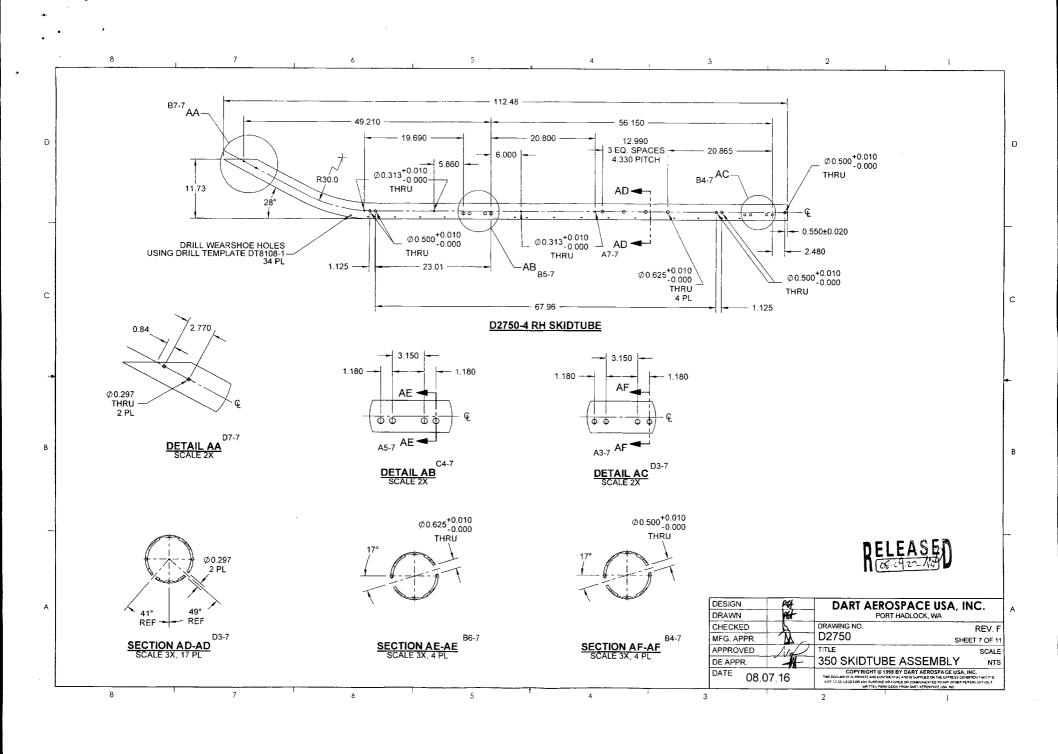
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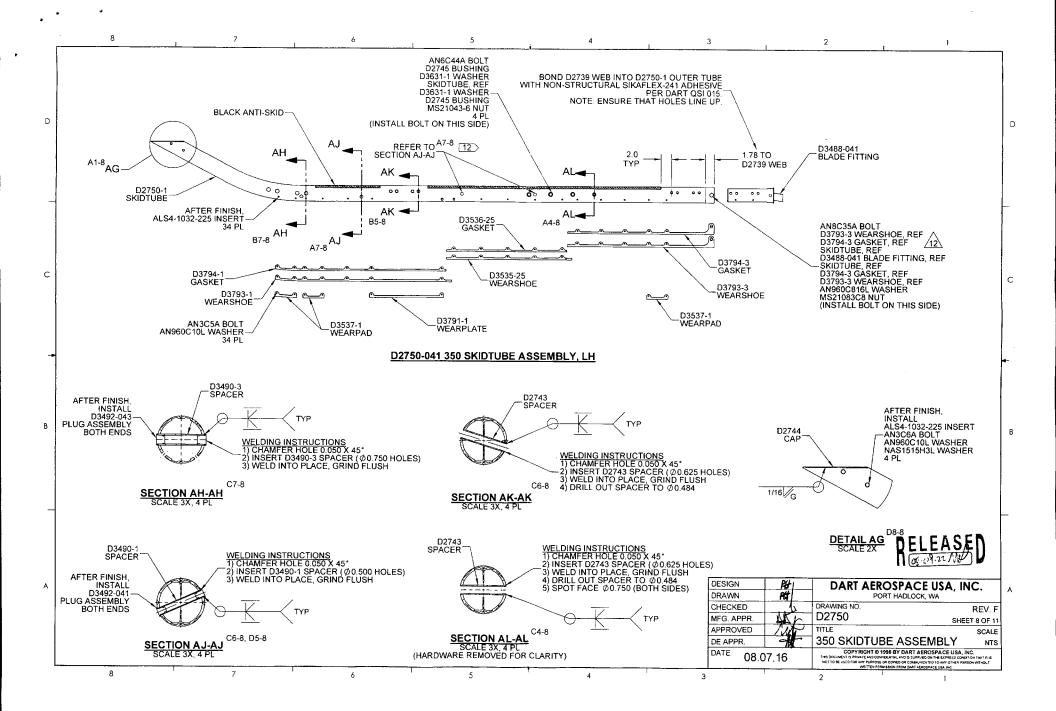
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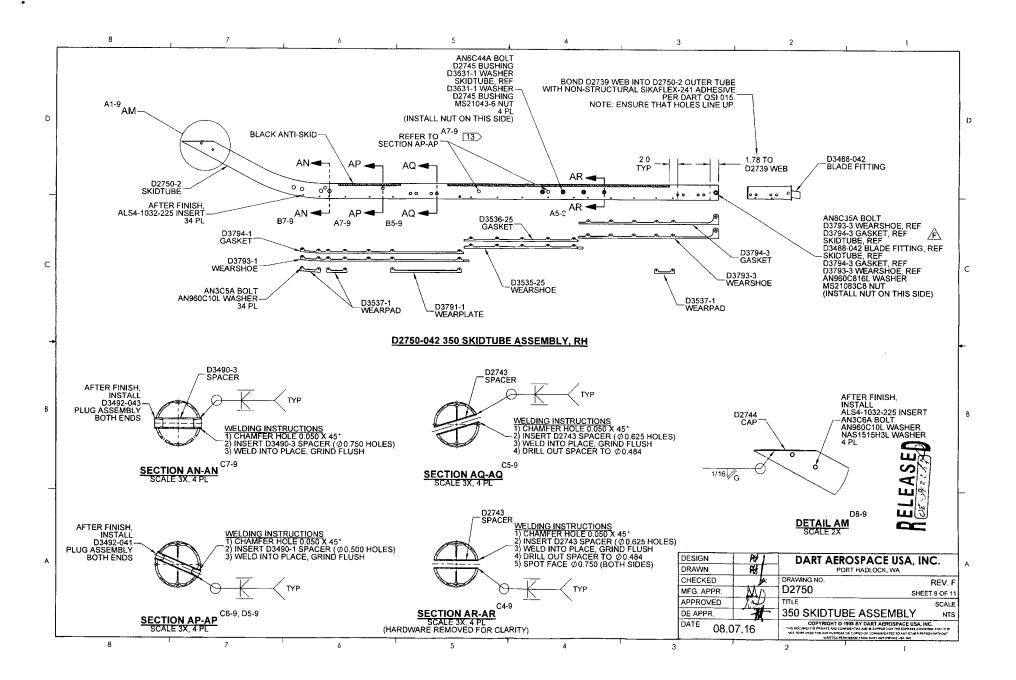
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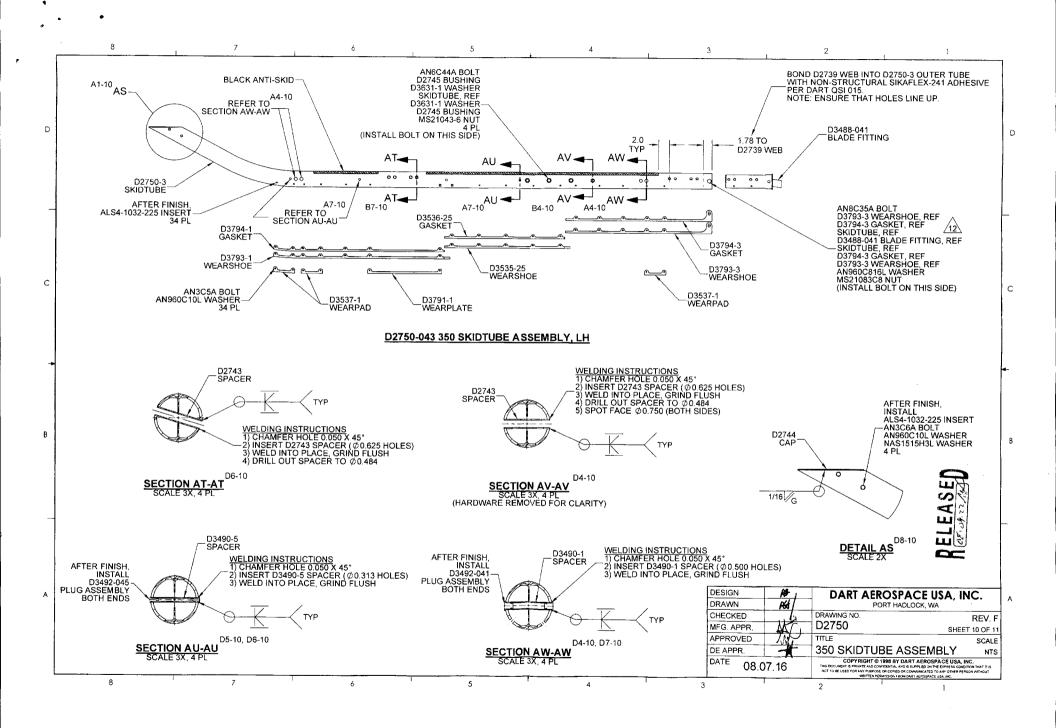
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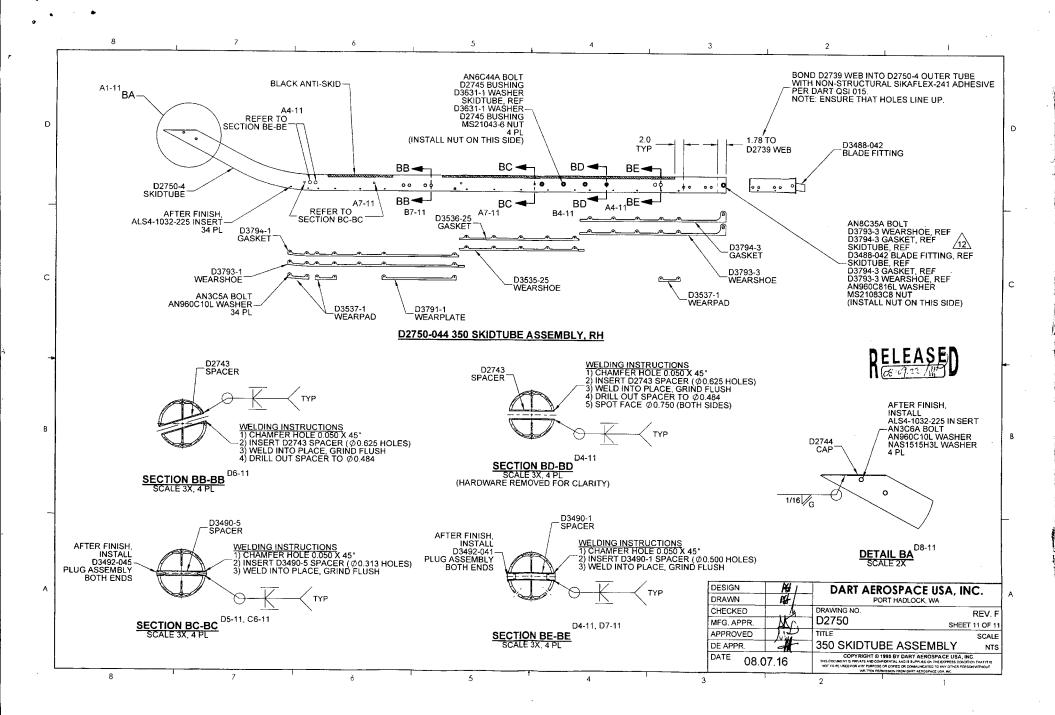
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NO. 300

# AWS D17.1.2001 QUALIFICATION TEST RECORD

Name:	Rarday Elliott	
Job #:	87941	
Part #:	1350-636-011	
Description:	Seid	
Welding Pro	ocess: Tig[ / Mig[ ]	
Base materi		
Current: A	C[Y DC[]	•

# TEST REQUIREMENTS AND RESULTS

Visual:	pass[] fail[]
<b>Incomplete Penetration:</b>	pass[/] fail[]
Incomplete Fusion:	pass[// fail[]
Cracks:	pass[/] fail[]
Overlap (cold lap)	pass['] fail[ ]
Undercut:	pass[] fail[]
Pin holes:	pass[ / fail[ ]
Porosity (surface):	pass[/] fail[]
Coloration:	pass[ ] fail[ ]
Burn through:	pass[ fail[ ]
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Qualifier Date of Test Coupon 12.07.26

Welder Barroy Elliot Date of Test Coupon 12-07-24

The above named individual is qualified in accordance with AWS D17.1.2001 to weld